



SPED 410

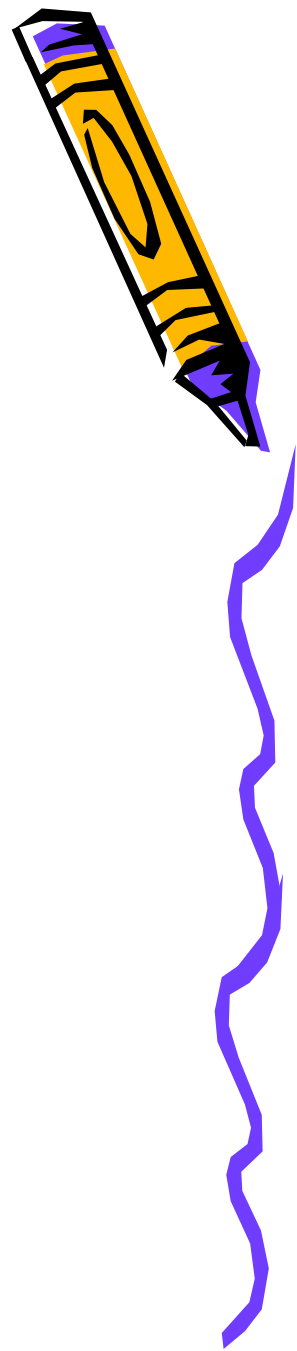
Introduction to Assistive Technology



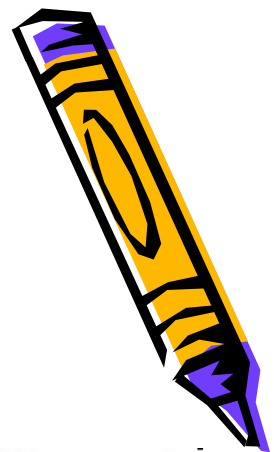
Mike Marotta, ATP

Agenda

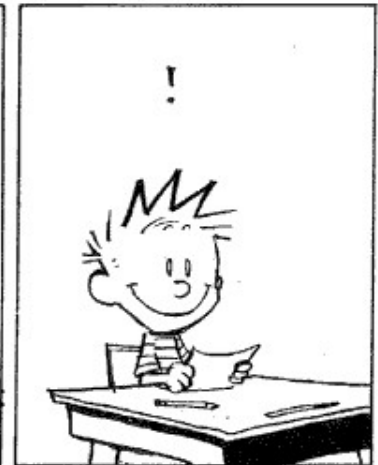
- Revised Course Calendar
- AT Consideration Process



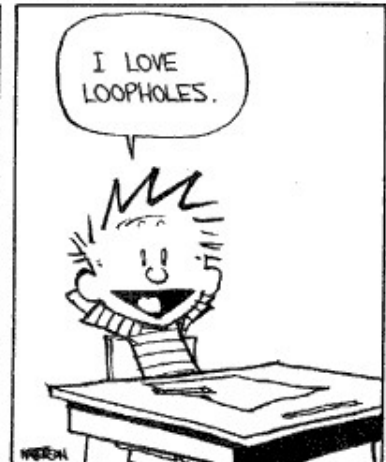
Time for a Quiz!



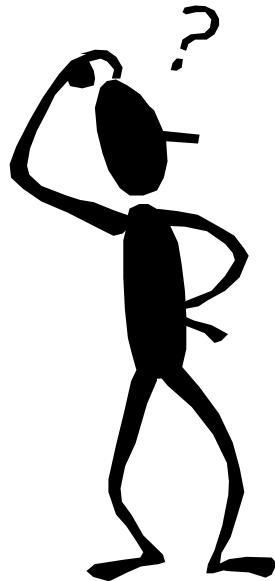
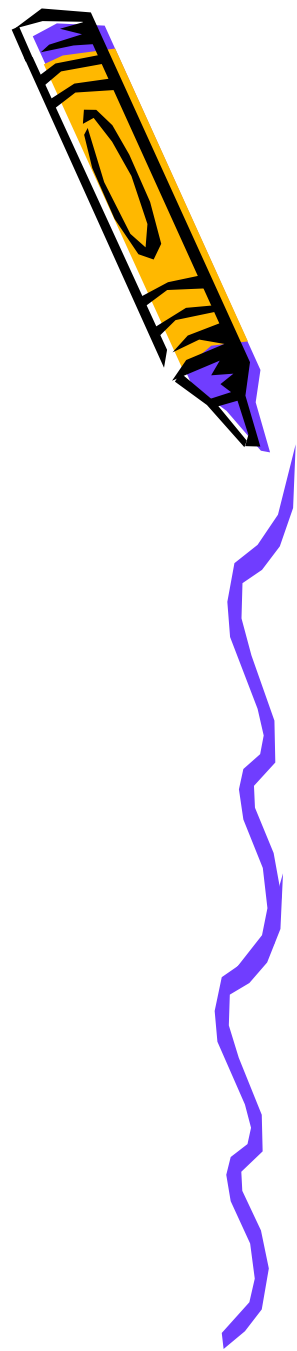
1. Explain Newton's First Law of Motion in your own words.



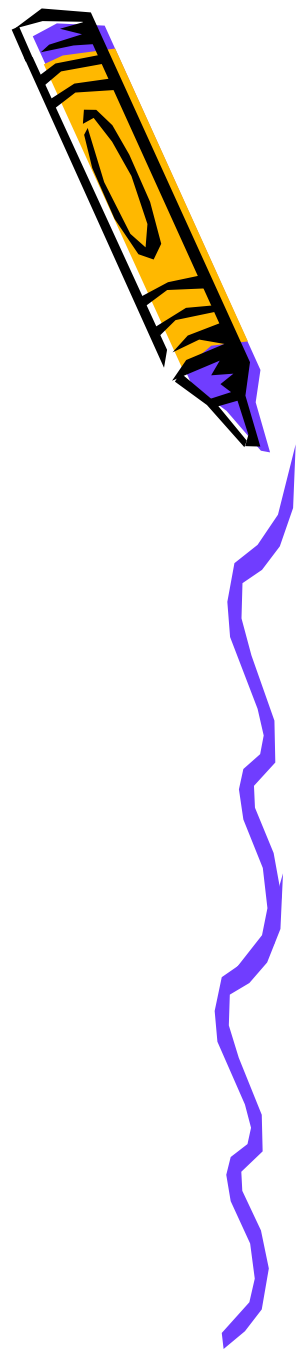
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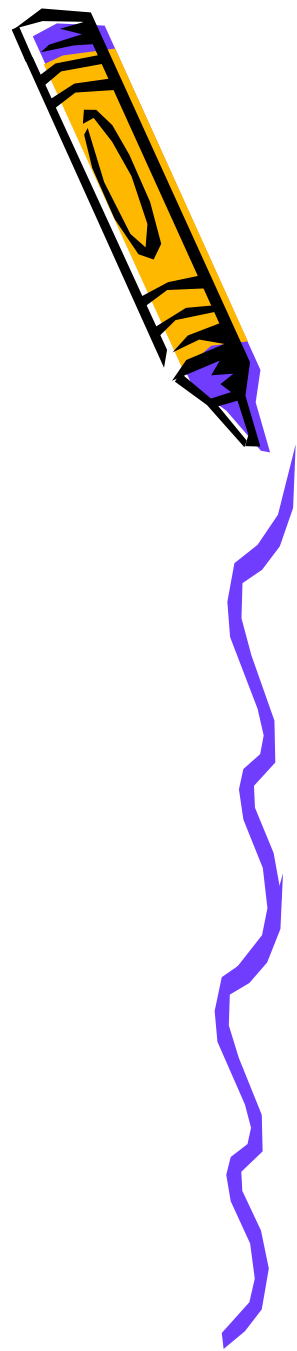
MISCONCEPTIONS about Assistive Technology



What Makes Technology Work?



What is Assistive Technology?

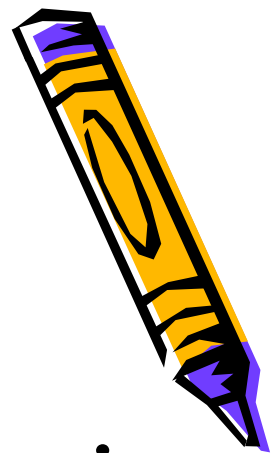


IDEA 2004

- **§300.5 Assistive Technology device**

Any item, piece of equipment, or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve functional capabilities of children with disabilities.

(Authority: 20 U.S.C. Chapter 33, Section 1401 (25))



IDEA 2004

- §300.6 Assistive Technology service

Any service that directly assists an individual with a disability in the selection, acquisition, or use of an assistive technology device. Such terms include:

- (A) the evaluation of needs including a functional evaluation, in the child's customary environment;
- (B) purchasing, leasing or otherwise providing for the acquisition of assistive technology devices;
- (C) selecting, designing, fitting, customizing, adapting, applying, maintaining, repairing, or replacing of assistive technology devices;



IDEA 2004

• §300.6 Assistive Technology service (cont.)

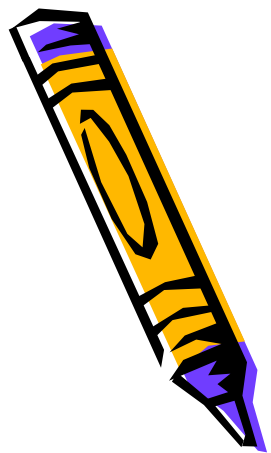
- (D) coordinating with other therapies, interventions, or services with assistive technology devices, such as those associated with existing education and rehabilitation plans and programs;
- (E) training or technical assistance for an individual with disabilities,
- or where appropriate that child's family; and
- (F) training or technical assistance for professionals (including individuals providing education and rehabilitation services), employers or others(s) who provide services to employ, or are otherwise, substantially involved in the major life functions of children with disabilities.

[Updated] 20 U.S.C., Chapter 33, Section 1401(26)]



AT Consideration

- According to IDEA, teams **MUST** consider what assistive technology, if any, may be needed by all students with disabilities.

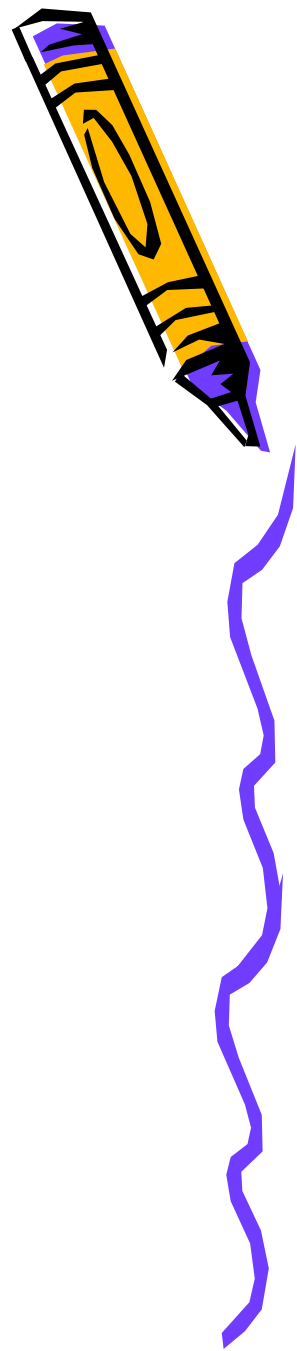


QIAT

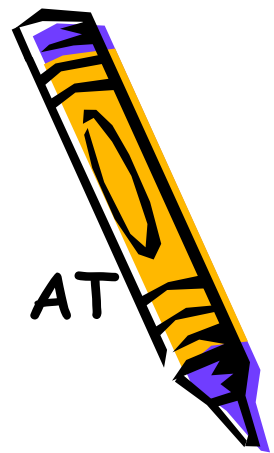


Quality Indicators in Assistive
Technology

www.qiat.org

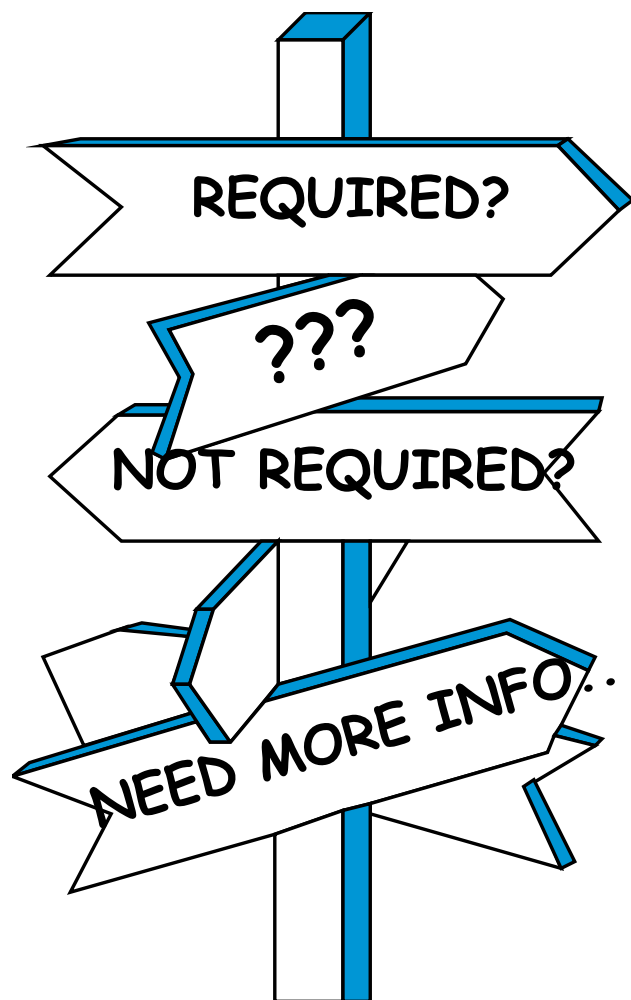


Questions to consider....



- If the student is currently using AT, is the AT adequate to address the new goals and objectives?
- Does the student need AT to access the curriculum?
- Does the student need AT to access instructional materials?
- Does the student need AT to access the technology used by other students?
- Could AT help the student work more independently?

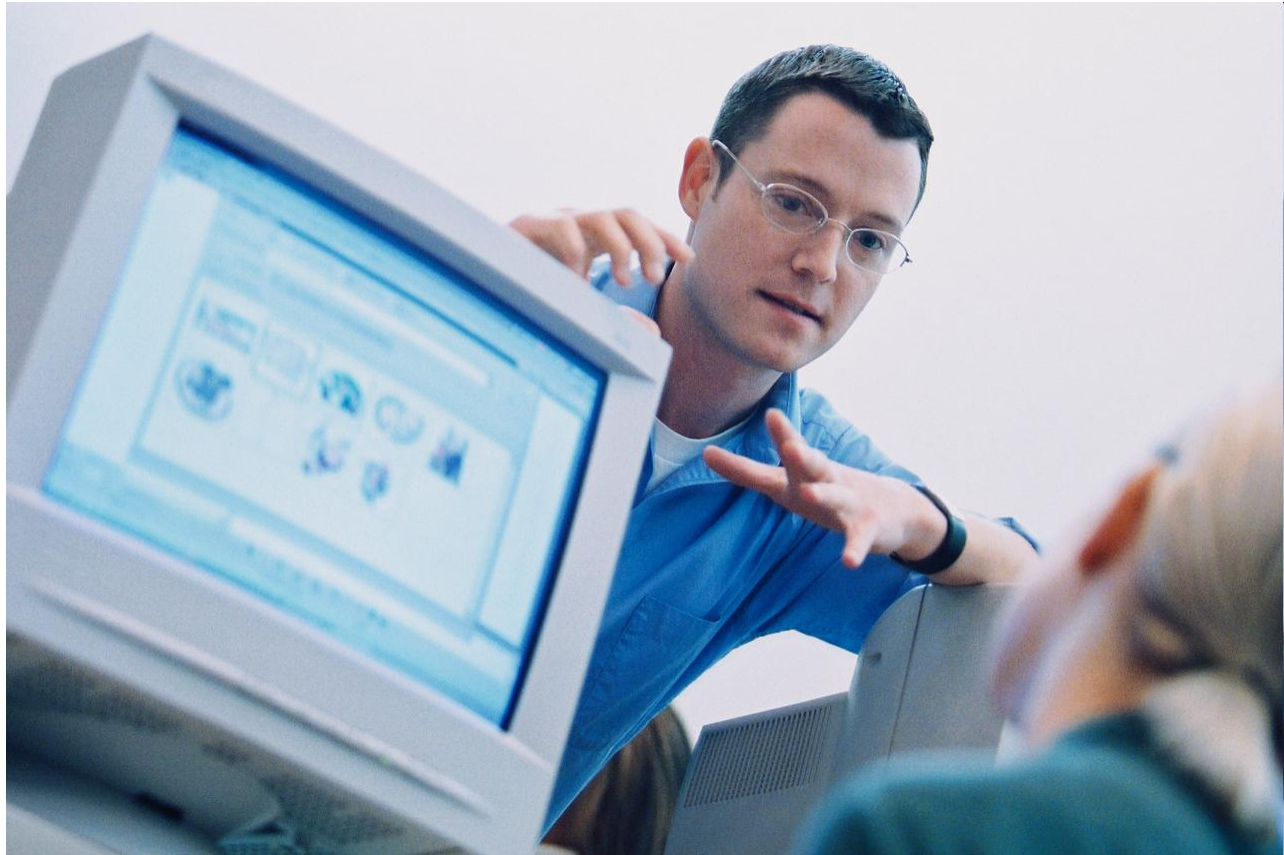
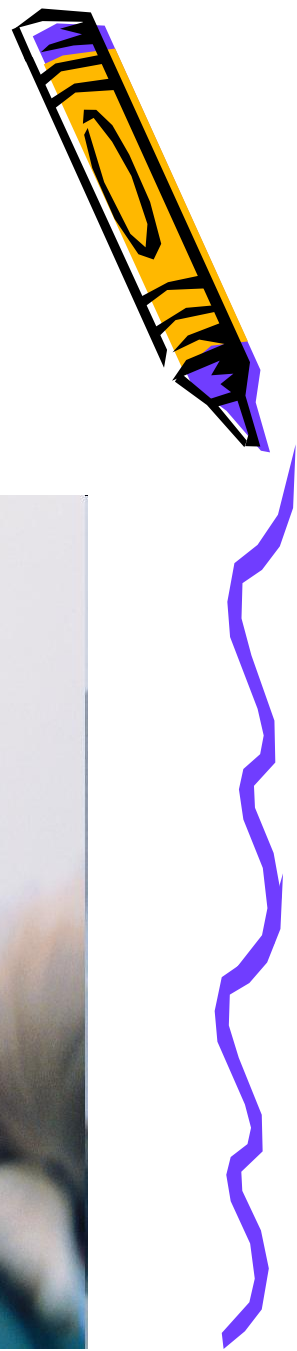




Results of AT Consideration



AT Assessment Process



Assessment should be...

- A dynamic process
- Conducted utilizing a variety of methodologies
- Followed with a plan to measure the effectiveness of outcomes & monitored for change needed



Dynamic Assistive Technology Evaluation (DATE)



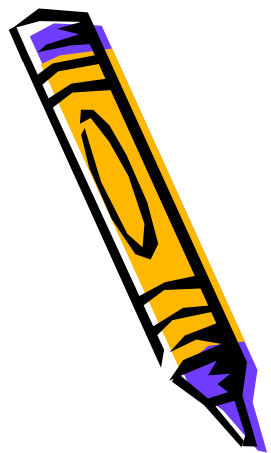
1. Identify and define areas of concern
2. Gather information related to concerns
3. Analyze information
4. Generate and prioritize potential solutions
5. Develop trial action plan
6. Conduct trials and collect data on effectiveness
7. Formulate recommendations
8. Document



1. Identification of Needs

- Consumers identify their:

- Goals
- Interests
- Dislikes
- Priorities, and
- the practical aspects of their living situation



The Team Approach to AT

- Assistive Technology is a flexible, collaborative decision-making process in which teams of families, professionals and friends repeatedly revise their decisions and reach consensus about the ever changing abilities, needs and expectations of the person with a disability.

*Adapted from S. Bagnato,
Children's Team Work*



Types of AT Teams



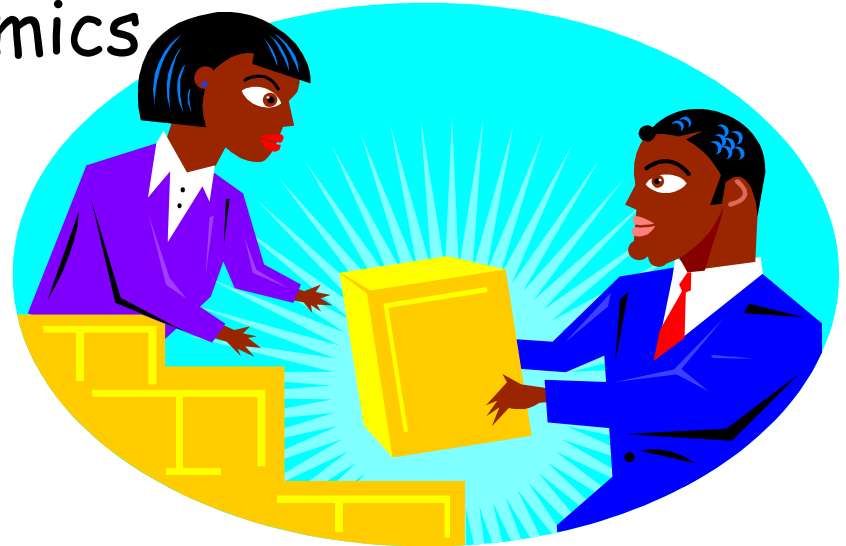
- Multidisciplinary
- Interdisciplinary
- Transdisciplinary
- Collaborative



Develop and Nurture Team Members



- Identify team members & responsibilities
- Recognize team dynamics
 - Roles
 - Responsibilities
 - Collaboration
 - Consensus Building
 - Conflict Resolution



Develop and Nurture Team Members



- Group Activity

Moon Explorer
Exercise



Directions

You are a space crew originally scheduled to meet with a mother ship on the lighted surface of the moon.

Due to mechanical difficulties, however, your ship was forced to land at a spot some 200 miles from the meeting point.

During re-entry and landing, much of the equipment was damaged and since survival depends on reaching the mother ship, the most critical items available must be chosen for the 200 mile trip.

Rank the 15 items:

#1 (most important) to #15 (least important)

Develop and Nurture Team Members



- Moon Explorer Exercise
 - Did you have more correct answers individually or as part of the group?
 - Did someone assume the leadership role? How was that received by the group?
 - Comment on your group dynamic:
 - How was consensus reached?
 - Was there any conflict? How was it resolved?
 - Any other comments?



Something to think about...

Be careful how you say things.

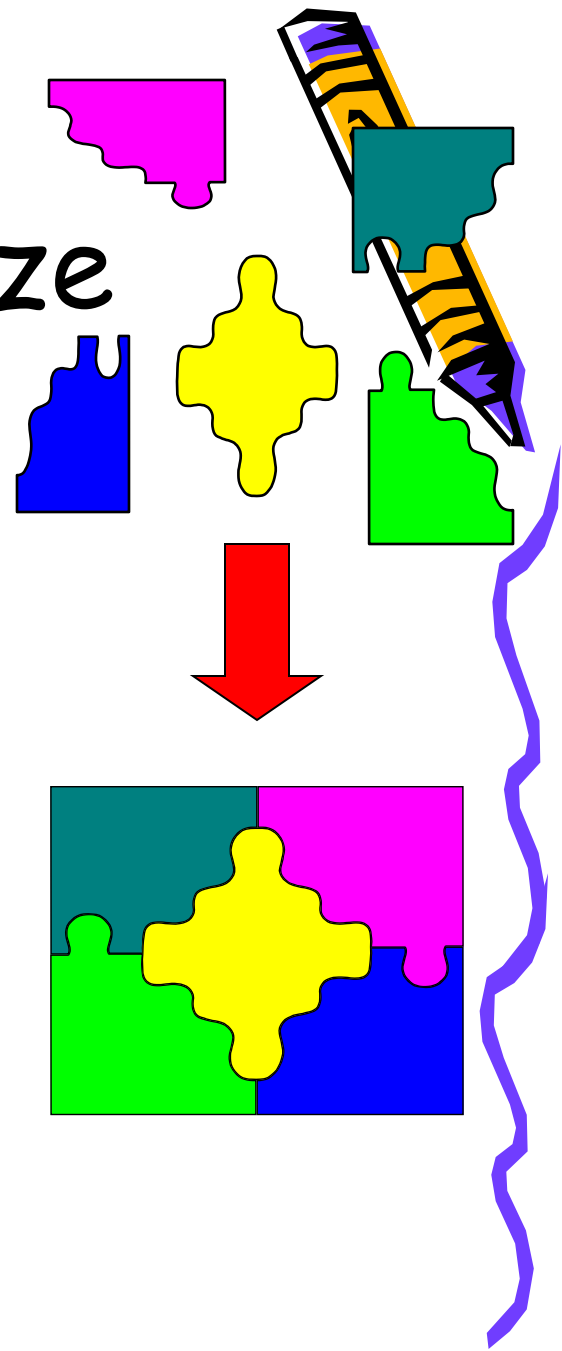
Red Flag words:

- Every
- Always
- Never
- If only
- They don't care
- Unrealistic

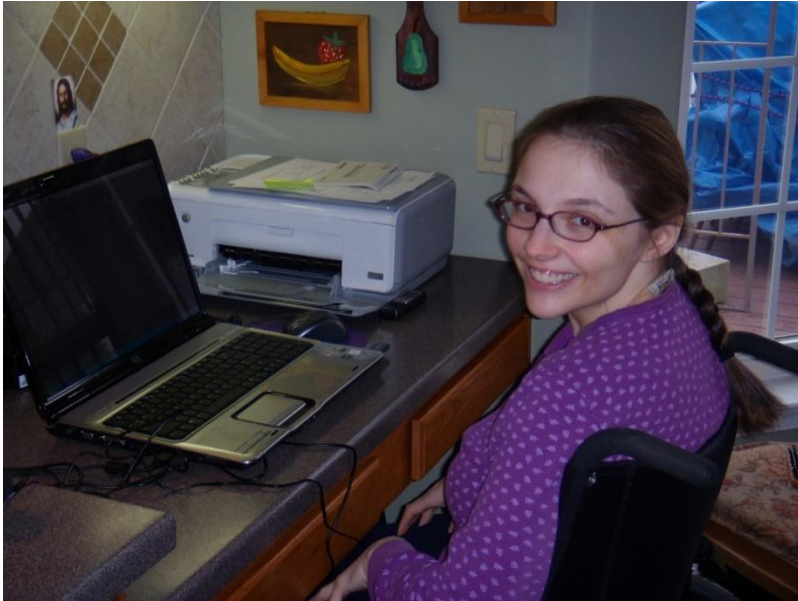
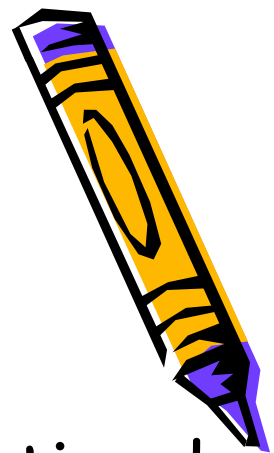


2-3. Gather and Analyze SETT Framework

- **S**tudent
- **E**nvironment
- **T**asks
- **T**ools



Student



- What are the functional areas of concern?
- Special needs
- Current abilities
- **Personal goals and concerns**
- **Interests and preferences**



Environment

Library

Classroom

Physical, but also...

- Support Available
- Materials and Equipment
- Attitudes and Expectations

Home

Tasks

- What SPECIFIC tasks enable progress toward IEP goals?
- What SPECIFIC tasks are required for active involvement?

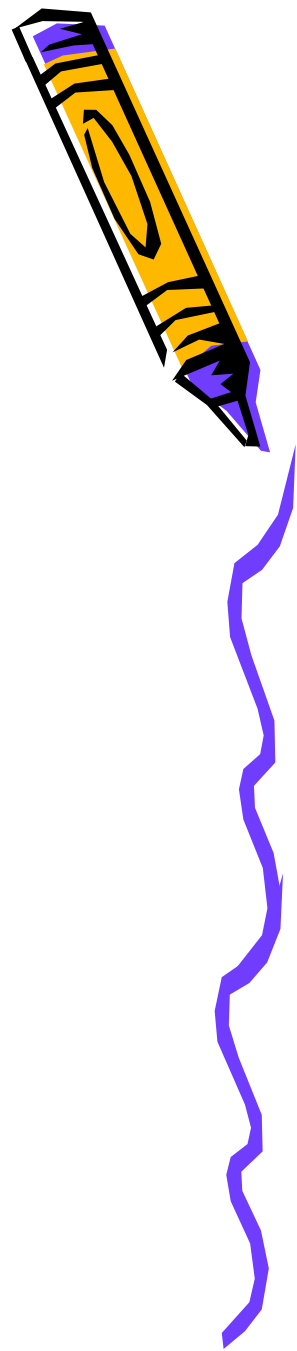


Tools

Devices, but also...

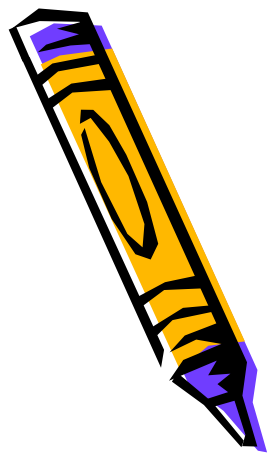
- Services, Training
- **Strategies**, Accommodations, Modifications

“everything that is needed to help the student succeed”



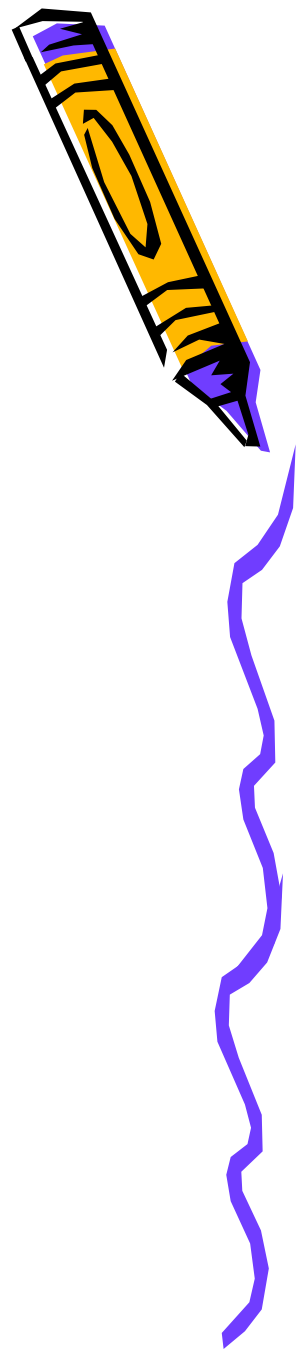
Info Gathering Activities:

- Interview student, family, team members
- Read and Interpret reports
- Assess environments
- Perform Task analysis
- Evaluate consumer abilities, use of AT



Group Activity

Review assessment tools



Dynamic Assistive Technology Evaluation (DATE)

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Questions / comments

